

David Evans

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EDUCATION

University of Wisconsin-Madison

Master of Science, Soil Science; GPA: 3.719

August 2013

Concentration: spatial analysis and pedology

Bachelor of Science, Soil Science; GPA: 3.714

May 2011

Concentration: field crop production

SKILL SET

- Spatial data analysis, manipulation, and management
- Statistical analysis and inference
- Scripting and application development
- GIS theory and practice
- Web development

Techniques and software proficiencies:

- R and Python
- ArcGIS, QGIS, and SAGA-GIS
- C# and VB.NET
- JavaScript
- Git version control software
- SWAT and ArcSWAT watershed modeling software
- GDAL/OGR spatial data libraries
- SQL

RELEVANT EXPERIENCE

GIS Analyst and Developer – Legislative Technology Services Bureau

May 2015 – Present

- Web site creation and maintenance
- Developed desktop applications using ArcObjects for .NET
- Assisted in ArcGIS Server maintenance and updates

IS Data Services – Department of Natural Resources

July 2014 – May 2015

- Assemble and organize spatial and non-spatial data for large watershed modeling project.
- Carry out statistical analysis for the regionalization of hydrologic model parameters.
- Assist with the development of a spatial analysis tool for predicting erosion and improving water quality.

GIS Technician – Natural Resources Conservation Service

January 2014 – June 2014

- Assist in the maintenance of wetland determinations database.
- Conduct orthorectification and wetland map creation.

GIS Analyst – UW-Madison Soil Science, Nutrient Cycling and Agroecosystems Lab

October 2013 – June 2014

- Facilitate the investigation of fine-scale soil variation in a fertilizer management study.
- Conduct spatial analysis of interaction of nitrogen rate and soil property in relation to crop yield.

Data Coordinator – UW-Madison Soil Science, F.D. Hole Soils Lab

August 2013 – June 2014

- Coordinate the progress and maintenance of map display and development for Wisconsin branch of the ISEE Project.
- Develop maps of landscapes and soil properties for educational purposes.
- Organize and maintain database of geospatial information.

Research Assistant – UW-Madison Soil Science, F.D. Hole Soils Lab

Sept 2011 – June 2013

- Used digital soil mapping techniques to produce quantitative maps of soil properties.
- Described and classified soils in the field according to US Soil Taxonomy.
- Investigated soil-landscape relationships through statistical and conceptual models.

SELECTED PRESENTATIONS & PUBLICATIONS

Ruesch, A. S., A. Mynsberge, and D. M. Evans. "Introduction to Python in ArcGIS." 10 February, 2016. A workshop given at the Wisconsin Land Information Association in Elkhart Lake, WI.

Evans, D. M. and A. E. Hartemink. "Digital soil mapping of a red clay subsoil covered by loess." 2014. Geoderma 230-231, 296-304.

Evans, D. M., K. Rudersdorf, G. Obear, S. Griffith, M.R. Naber, and P. Barak. "Saline and Sodic Soils in Wisconsin: The Sad Story of the Costco Infiltration Pond." 12 September, 2012. Presentation given to USGS Water Resources Meeting, Madison, WI.